

Abarna_day88

```
#include <stdio.h>
#include <stdlib.h>

void find_min_permutation(int N, int *A) {
    int min_perm[N];
    for (int i = 0; i < N; i++) {
        min_perm[i] = A[i];
    }

    for (int shift = 0; shift < N; shift++) {
        int current_perm[N];
        for (int i = 0; i < N; i++) {
            current_perm[i] = A[(i + shift) % N];
        }

        for (int i = 0; i < N; i++) {
            for (int j = i + 1; j < N; j++) {
                int temp = current_perm[i];
                current_perm[i] = current_perm[j];
                current_perm[j] = temp;

                if (memcmp(current_perm, min_perm, N * sizeof(int)) < 0) {
                    for (int k = 0; k < N; k++) {
                        min_perm[k] = current_perm[k];
                    }
                }

                current_perm[j] = current_perm[i];
                current_perm[i] = temp;
            }
        }
    }

    for (int i = 0; i < N; i++) {
        printf("%d ", min_perm[i]);
    }
    printf("\n");
}

int main() {
    int T;
    scanf("%d", &T);

    while (T--) {
        int N;
        scanf("%d", &N);
```

```
int A[N];
for (int i = 0; i < N; i++) {
    scanf("%d", &A[i]);
}

find_min_permutation(N, A);
}

return 0;
}
```